



SEQUENCE LISTING

All

<110> SOULARD, PATRICIA

<120> POLYPEPTIDES EXHIBITING PDE7 ACTIVITY AND THEIR USE FOR
SELECTING COMPOUNDS WHICH INHIBIT PDE7 ENZYME ACTIVITY

<130> A0000281US

<140> 09/966781

<141> 2001-09-28

<150> EP004026837

<151> 2000-09-28

<160> 35

<170> PatentIn Ver. 2.1

<210> 1

<211> 426

<212> PRT

<213> Homo sapiens

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35 40 45

Ala Arg Asn Ile Arg Arg Leu Leu Ser Phe Gln Arg Tyr Leu Arg Ser
50 55 60

Ser Arg Phe Phe Arg Gly Thr Ala Val Ser Asn Ser Leu Asn Ile Leu
65 70 75 80

Asp Asp Asp Tyr Asn Gly Gln Ala Lys Cys Met Leu Glu Lys Val Gly
85 90 95

Asn Trp Asn Phe Asp Ile Phe Leu Phe Asp Arg Leu Thr Asn Gly Asn
100 105 110

Ser Leu Val Ser Leu Thr Phe His Leu Phe Ser Leu His Gly Leu Ile
115 120 125

EXPRESS MAIL NO. EF378128691US
PD-A0000281-66-MG

Glu Tyr Phe His Leu Asp Met Met Lys Leu Arg Arg Phe Leu Val Met
 130 135 140

Ile Gln Glu Asp Tyr His Ser Gln Asn Pro Tyr His Asn Ala Val His
 145 150 155 160

Ala Ala Asp Val Thr Gln Ala Met His Cys Tyr Leu Lys Glu Pro Lys
 165 170 175

Leu Ala Asn Ser Val Thr Pro Trp Asp Ile Leu Leu Ser Leu Ile Ala
 180 185 190

Ala Ala Thr His Asp Leu Asp His Pro Gly Val Asn Gln Pro Phe Leu
 195 200 205

Ile Lys Thr Asn His Tyr Leu Ala Thr Leu Tyr Lys Asn Thr Ser Val
 210 215 220

Leu Glu Asn His His Trp Arg Ser Ala Val Gly Leu Leu Arg Glu Ser
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Gly Leu Phe Ser His Leu Pro Leu Glu Ser Arg Gln Gln Met Glu Thr
 245 250 255

Gln Ile Gly Ala Leu Ile Leu Ala Thr Asp Ile Ser Arg Gln Asn Glu
 260 265 270

Tyr Leu Ser Leu Phe Arg Ser His Leu Asp Arg Gly Asp Leu Cys Leu
 275 280 285

Glu Asp Thr Arg His Arg His Leu Val Leu Gln Met Ala Leu Lys Cys
 290 295 300

Ala Asp Ile Cys Asn Pro Cys Arg Thr Trp Glu Leu Ser Lys Gln Trp
 305 310 315 320

Ser Glu Lys Val Thr Glu Glu Phe Phe His Gln Gly Asp Ile Glu Lys
 325 330 335

Lys Tyr His Leu Gly Val Ser Pro Leu Cys Asp Arg His Thr Glu Ser
 340 345 350

Ile Ala Asn Ile Gln Ile Gly Phe Met Thr Tyr Leu Val Glu Pro Leu
 355 360 365

Phe Thr Glu Trp Ala Arg Phe Ser Asn Thr Arg Leu Ser Gln Thr Met
 370 375 380

Leu Gly His Val Gly Leu Asn Lys Ala Ser Trp Lys Gly Leu Gln Arg
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Glu Gln Ser Ser Ser Glu Asp Thr Asp Ala Ala Phe Glu Leu Asn Ser
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420 425

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<212> PRT
<213> Mus sp.

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Asp Phe Arg Ile Phe His Ser Gln Ser Asp Ile Glu Ala Ser Val Ser
35 40 45

Ala Arg Asn Ile Arg Arg Leu Leu Ser Phe Gln Arg Tyr Leu Arg Ser
50 55 60

Ser Arg Val Phe Arg Gly Ala Thr Val Cys Ser Ser Leu Asp Ile Leu
65 70 75 80

Asp Glu Asp Tyr Asn Gly Gln Ala Lys Cys Met Leu Glu Lys Val Gly
85 90 95

Asn Trp Asn Phe Asp Ile Phe Leu Phe Asp Arg Leu Thr Asn Gly Asn
100 105 110

Ser Leu Val Ser Leu Thr Phe His Leu Phe Ser Leu His Gly Leu Ile
115 120 125

Glu Tyr Phe His Leu Asp Met Val Lys Leu Arg Arg Phe Leu Val Met
130 135 140

Ile Gln Glu Asp Tyr His Ser Gln Asn Pro Tyr His Asn Ala Val His
145 150 155 160

Ala Ala Asp Val Thr Gln Ala Met His Cys Tyr Leu Lys Glu Pro Lys

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Ala Ala Thr His Asp Leu Asp His Pro Gly Val Asn Gln Pro Phe Leu		
195	200	205
Ile Lys Thr Asn His Tyr Leu Ala Thr Leu Tyr Lys Asn Ser Ser Val		
210	215	220
Leu Glu Asn His His Trp Arg Ser Ala Val Gly Leu Leu Arg Glu Ser		
225	230	235
240		
Gly Leu Phe Ser His Leu Pro Leu Glu Ser Arg Gln Glu Met Glu Ala		
245	250	255
Gln Ile Gly Ala Leu Ile Leu Ala Thr Asp Ile Ser Arg Gln Asn Glu		
260	265	270
Tyr Leu Ser Leu Phe Arg Ser His Leu Asp Lys Gly Asp Leu His Leu		
275	280	285
Asp Asp Gly Arg His Arg His Leu Val Leu Gln Met Ala Leu Lys Cys		
290	295	300
Ala Asp Ile Cys Asn Pro Cys Arg Asn Trp Glu Leu Ser Lys Gln Trp		
305	310	315
320		
Ser Glu Lys Val Thr Glu Glu Phe Phe His Gln Gly Asp Ile Glu Lys		
325	330	335
Lys Tyr His Leu Gly Val Ser Pro Leu Cys Asp Arg Gln Thr Glu Ser		
340	345	350
Ile Ala Asn Ile Gln Ile Gly Phe Met Thr Tyr Leu Val Glu Pro Leu		
355	360	365
Phe Thr Glu Trp Ala Arg Phe Ser Ala Thr Arg Leu Ser Gln Thr Met		
370	375	380
Leu Gly His Val Gly Leu Asn Lys Ala Ser Trp Lys Gly Leu Gln Arg		
385	390	395
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<212> PRT

<213> Rattus sp.

<400> 3

Asp Gln Thr Ala Leu Tyr Ile Arg Met Leu Gly Asp Val Arg Val Arg
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Ser Arg Ala Gly Phe Glu Thr Glu Arg Arg Gly Ser His Pro Tyr Ile
 20 25 30

Asp Phe Arg Ile Phe His Ala Gln Ser Glu Ile Glu Ala Ser Val Ser
 35 40 45

Ala Arg Asn Ile Arg Arg Leu Leu Ser Phe Gln Arg Tyr Leu Arg Ser
 50 55 60

Ser Arg Phe Phe Arg Gly Ala Thr Val Cys Arg Ser Leu Asn Ile Leu
 65 70 75 80

Asp Glu Asp Tyr Asn Gly Gln Ala Lys Cys Met Leu Glu Lys Val Gly
 85 90 95

Asn Trp Asn Phe Asp Ile Phe Leu Phe Asp Arg Leu Thr Asn Gly Asn
 100 105 110

Ser Leu Val Ser Leu Thr Phe His Leu Phe Ser Leu His Gly Leu Ile
 115 120 125

Glu Tyr Phe His Leu Asp Met Val Lys Leu Arg Arg Phe Leu Val Met
 130 135 140

Ile Gln Glu Asp Tyr His Ser Gln Asn Pro Tyr His Asn Ala Val His
 145 150 155 160

Ala Ala Asp Val Thr Gln Ala Met His Cys Tyr Leu Lys Glu Pro Lys
 165 170 175

Leu Ala Asn Ser Val Thr Pro Trp Asp Ile Leu Leu Ser Leu Ile Ala
 180 185 190

Ala Ala Thr His Asp Leu Asp His Pro Gly Val Asn Gln Pro Phe Leu
 195 200 205

Ile Lys Thr Asn His Tyr Leu Ala Thr Leu Tyr Lys Asn Thr Ser Val
 210 215 220
 Leu Glu Asn His His Trp Arg Ser Ala Val Gly Leu Leu Arg Glu Ser
 225 230 235 240
 Gly Leu Phe Ser His Leu Pro Leu Glu Ser Arg His Glu Met Glu Ala
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 Gln Ile Gly Ala Leu Ile Leu Ala Thr Asp Ile Ser Arg Gln Asn Glu
 260 265 270
 Tyr Leu Ser Leu Phe Arg Ser His Leu Asp Lys Gly Asp Leu His Leu
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 Asp Asp Gly Arg His Arg His Leu Val Leu Gln Met Ala Leu Lys Cys
 290 295 300
 Ala Asp Ile Cys Asn Pro Cys Arg Asn Trp Glu Leu Ser Lys Gln Trp
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 Ser Glu Lys Val Thr Glu Glu Phe Phe His Gln Gly Asp Ile Glu Lys
 325 330 335
 Lys Tyr His Leu Gly Val Ser Pro Leu Cys Asp Arg Gln Thr Glu Ser
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 Ile Ala Asn Ile Gln Ile Gly Phe Met Thr Tyr Leu Gln Glu Pro Leu
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 Phe Thr Glu Trp Ala Arg Phe Ser Asp Thr Arg Leu Ser Gln Thr Met
 370 375 380
 Leu Gly His Val Gly Leu Asn Lys Ala Ser Trp Lys Gly Leu Gln Arg
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<210> 4

<211> 1281

<212> DNA

<213> Homo sapiens

<400> 4

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<213> Mus sp.

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<210> 6
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<213> Rattus sp.

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caggaatac ggttatcata a 1281

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<210> 7
<211> 20
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Primer

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<400> 7
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<210> 8
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

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<210> 9
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

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<210> 10
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

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<212> DNA
<213> Mus sp.

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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

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<210> 13
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<213> Artificial Sequence

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<223> Description of Artificial Sequence:Primer

<400> 13
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<210> 14
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<212> DNA
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<220>
<223> Description of Artificial Sequence:Primer

<400> 14
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<210> 15
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

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<210> 16
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<400> 16
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<210> 17
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<400> 17
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<210> 18
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<220>
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<213> Artificial Sequence

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